The Heating and Ventilating Magazine

INDEX TO VOLUME XXII, 1925

NEW YORK
Heating and Ventilating Magazine Co.
1123 Broadway

Air conditioning during sleeping hours, Paul W. Goldsbury, Aug.
filters in England, March
purifier and humidifier for the home, an elaborate, Feb.
recirculating practice in the Northwest, Carleton F. Tweed, Sept.
Alwyn-Schmidt, L. W., the state of business.
Spring business promises well, Jan.
marked improvement indicated, Feb.
situation very hopeful, March
market in watchful mood, April
Spring business below expectations, June.
American Association of Oil Burner Manufacturers, annual convention of, May
home to be erected in France, model, Aug.
Public Health Association, condemns mechanical ventilation, Dec.
American Society of Heating and Ventilating Engineers.
Ontario Chapter discusses oil burning, Jan.
group engineering of Grand Central Terminal described to New York Chapter, Jan.
Massachusetts Chapter, Jan.
nomination of Samuel E. Dibble for president, Jan.
tentative program for annual meeting, Jan.
the research laboratory goes on (proceedings of annual meeting) Feb.
past presidents' club organized, Feb.
death of Secretary Houghten's father, Feb.
Illinois Chapter hears talk on boiler ratings, Feb.
new officers of Western New York Chapter, Feb.
Philadelphia Chapter installs officers, Feb.
swells funds of A.S.H. & V.E. Research Laboratory, March
unit heaters the subject of New York Chapter's February Meeting, March
Western New York Chapter discusses oil heating from the contractors' viewpoint, March
Illinois Chapter holds experience meeting in oil burning, April
Western New York Chapter's March meeting, April
Milwaukee chapter members guests of Bayley Mfg. Co., April
President Dibble guest of Philadelphia Chapter, April
conditions and practices in the heating and ventilating industry come up for frank discussion, April
Toronto Chapter to make school ventilation tests, May
New York Chapter discusses heat economies in paper making, May
university students guests of Western New York Chapter, May
plans for Atlantic City meeting, May
program of midsummer meeting, June
New York Chapter closes season with dinner, June
Illinois Chapter's May outing, June
Western New York Chapter, June
testimonial dinner to Dean Anderson, July
movement for better plans and specifications in heating work, July
heating engineers release code on heating and ventilation (proceedings of semi-annual meeting) July
new director of the research laboratory, Sept.
Illinois Chapter elects officers, Nov.
new officers for Wisconsin Chapter, Nov.
Philadelphia Chapter takes up unit ventilation, Nov.
oil burning discussed by Kansas City Chapter, Nov.
Kansas City Chapter's program, Nov.
Western New York Chapter sees movies of American Radiator Co.'s plant, Nov.
Pittsburgh Chapter undertakes to build a heating research residence, Nov.
Buffalo selected for annual meeting, Nov.
officers nominated for 1926, Nov.
research laboratory's program, Nov.
resignation of F. C. Houghten as secretary, Nov.
Kansas City Chapter takes lead in movement to change society's constitution, Dec.
Illinois Chapter discusses society affairs, Dec.
Western New York Chapter, Dec.
program for Wisconsin Chapter, Dec.
elimination of steam-type radiators predicted at meeting of New York Chapter, Dec.
technical advisory committee for the research laboratory, Dec.
progress of investigations at A.S.H. & V.E. Research Laboratory, Dec.
Ahrens professorship at Carnegie Tech., S. E. Dibble appointed to, Dec.
Applications of the warm-air heater rating formula, V. S. Day, April
Architect to the sub-contractor, relation of the, June
Arnold, H. S., jointless heating system for a modern manufacturing plant, April
Ashley, C. M. and A. E. Stacey, Jr., proposed method for comparison of effectiveness of indirect heating surfaces, July
Back to first principles, T. W. Reynolds.
circulating water below its heating source without mechanical means, Jan., April
connecting returns to heating boilers without the use of check valves, April
notes, June
Barker, A. H., what we don't know about flow of water in pipes, May
known and unknown factors in heating work, May
Barrows, George S., suppose that coal was unknown, June
Better Building Registry and what it means, Aug.
Between the lines, Feb.
Boiler rating committee's solution of rating problem, July
ratings and fuel conservation, Ray A. Small, Sept.
Boilers used in vacuum heating systems, dangers to low-pressure, May
scavenge their own dust and gases, July
rated on a new basis, Novelty, May
on roof, movie house locates heating, Sept.
oil-fired cast-iron and steel, show high combined efficiency, Dec.
oil-burning—their design and characteristics, Oct., Nov.
oil-burning—high efficiencies result from the development of unconventional types suitable onl y for fluid fuel, Nov.
how the Wisconsin Industrial Commisson would rate heating, Sept.
Bourke, N. T., new chart for figuring greenhouse heating, May
Bousquet, L. J., and G. A. Foisy, characteristics of an air-tube copper heater, May
Braun, Louis T., heating industry must act as a unit, July
Breese, James L., Jr., what happens when we burn oil, June
British fuel research board reports on heating of rooms, Aug.
Buder, C. G., the value of fans in furnace heating, July
Building—1925 to equal 1924 as a building year, Feb.
construction to save heat, the need for better, June
contracts, by classes, 1919-1924, Jan.
Business practice, for greater stability and better standards of, Dec.
Calderwood, J. P. and A. J. Mack, new tests of automatic ventilators, Dec.
Carnahan, Glenn C., progress of house-heating by gas in Chicago
1. can house-heating by gas be developed into a big business? June
2. what it costs to heat with manufactured gas, July
Cellar, modernizing the, Aug.
Central and district heating possibilities in Canada, Feb.
heating, Dominion Fuel Board issues report on, Jan.
station heating rates, 1925-1926, Dec.
station steam, halving coats with, Samuel R. Lewis, Sept.
Certified heating, Chicago adopts, May
heating in Chicago, Aug.
Chimney heights and flue sizes, new data for figuring, March
Chimneys and flues in building codes, June
Coal, ban on soft, lifted in New York City, Nov.
fuel, line of advance in the use of, David Moffat Meyers, Sept.
small-sized anthracite the key to the hard-coal fuel-conservation problem, Sept.
tests show possible savings in burning buckwheat, Sept.
was unknown, suppose that, George S. Barrows, June
rules for burning bituminous egg and nut, Dec.
Codes, rules and compendiums, Samuel R. Leais, Aug.
Coke fits into the fuel conservation movement, where, Sept.
Contractors and sub-contractors, recommended procedure for selecting general, Jan.
Construction, winter, on the increase, Nov.
Copper heater, characteristics of an air-tube, L. J. Bousquet and G. A. Foisy, May, June
Cooling of theatres and public buildings, H. J. Macintire, June
pays for itself, how theatre, Dec.
ventilation and, of motion picture theatres, Aug.
Correspondence.
effect of room partitions in figuring radiation, Jan.
experience of burning buckwheat in a house heater, Jan.
extending the vacuum to the inside of the radiator, Jan.
ventilating vagaries, Jan.
effect of room partitions in figuring radiation, Feb.
flashing of condensation in return pipes, Feb.
heat transmission from pipe coils for varied sizes of pipes and heating systems, Feb.

smaller returns for vapor heating systems, Feb.
whistling noise in gas burners, Feb.
replacement of underground heating lines, April.
an English method of extending the vacuum to the inside of the radiator, March
free engineering, March
notes on fan standardization, March
determining the air capacities of vacuum pumps, May
why water leaves the boiler in one-pipe heating systems, May
determining air capacities of vacuum pumps, June
the apprenticeship situation in the steamfitting industry, June
a one-pipe system with a cold point, July
open-tank versus closed-tank heating systems, July
simple method of computing roof losses, July
computing the size of condensation pumping equipment, Aug.
equalizing and drip connections of boilers, Aug.
estimating data for the sheet-metal contractor, Aug.
inconsistencies in heat-transmission factors, Aug.
proportionate amounts and velocities of air and water in vacuum return lines, Aug.
size of boiler and pipe coil required for heating water, Sept.
sluggish circulation of water due to slight motive head, Sept.
use of central vent flues in corridors, Sept.
a combination down-feed and up-feed water heating system, Oct.
all coming under the head of editorial service, Oct.
vacuum vapor versus gravity steam for garage heating, Oct.
a legal question about domestic water service heaters, Oct.
favorite trade expressions—what do they mean? Oct.
for longer life of smoke pipes, Nov.
"modulated" or "controlled" heat, Nov.
figuring radiation for an enamel-drying room, Nov.

Cost accounting for the heating contractor, Aug.

Daniels, A. M., home-study course in gravity steam and water heating.
Lesson 3. heat loss computations, Jan.
Lesson 4. heat loss computations—rule-of-thumb methods, Feb.
Lesson 5. March
Lesson 6. April
Lesson 7. May
Lesson 8. up-feed, one-pipe water heating systems, June
Lesson 9. Applications of the down-feed water heating system, July
Lesson 10. single-main circuit system; one-pipe down-feed system; expansion tanks and connections, Aug.
Lesson 11. forced or accelerated water heating systems, Sept., Oct.
Lesson 12. designs and inspection reports, water heating systems, Nov.
Lesson 13, radiators and radiation, Dec.

Dangers to low-pressure boilers used in vacuum heating systems, May

Data sheets, standard heating and ventilating.
4-G—degree-day data—temperature-time conversion to degree-days—definitions and applications, June
4-H—degree-day data—temperature-time conversion to degree-days—table developing "d-d" for various cities, June
4-I—degree-day data—temperature - time conversion to degree-days—annual coal and oil fuel requirements with different boiler efficiencies, June
4-J—degree-day data—temperature - time conversion to degree-days—"d-d" annual variations—corresponding B.T.U. variation.
5—Iso-degree-day chart, Sept.
5-A—Iso-gas-consumption chart, Oct.
5-B—Iso-oil-consumption chart, Nov.
13-UU—radiation computing, the Reynolds tables, April
13-VV—radiation computing, the Reynolds tables, April
13-WW—radiation computing, the Reynolds tables, April
13-XX—radiation computing, the Reynolds tables, April
13-YY—radiation computing, the Reynolds tables, May
13-ZZ—radiation computing, the Reynolds tables, May
13-ZZ1—radiation computing, the Reynolds tables, May
13ZZ2—radiation computing, the Reynolds tables, May
14-BB—radiator ratings—1-in. pipe coil, concealed, two top registers, Jan.
14-CC—radiator ratings, 1¼-in. pipe coil, concealed, two top registers, Jan.
14-DD—radiator ratings, 1½-in. pipe coil, concealed, two top registers, Jan.
14-EE—radiator ratings, 2-in. pipe coil, concealed, two top registers, Jan.
14-FF—radiator ratings, 1-in. pipe coil, concealed, front and top and full front registers, March
14-GG—radiator ratings, 1¼-in. pipe coil, concealed, front and top and full front registers, March
14-HH—radiator ratings, 1½-in. pipe coil, concealed, front and top and full front registers, March
14-II—radiator ratings, 2-in. pipe coil, concealed, front and top and full front registers, March
15—radiators—effect of different finishes on heat transmission, Aug.
15-A—radiators—effect of different finishes on heat transmission, Aug.
30—Nekrassof humidity chart, Dec.
48-D—oil burning—correct installation of oil-storage tanks, July
48-E—oil burning—correct installation of oil-storage tanks, July
48-F—oil burning—incorrect installation of oil-storage tanks, July
48-G—oil burning—incorrect installation of oil-storage tanks, July
49-B (revised)—boiler capacities, Feb.
49-C (revised)—boiler capacities, Feb.
49-D (revised)—boiler capacities, Feb.
49-E (revised)—boiler capacities, Feb.
136-(revised)—fans—designation of fans, Aug.
136-A (revised)—fans—arrangement of drives, Aug.

Data sheets for use under Wisconsin code, Ray A. Small, July.

Day, V. S., applications of the warm-air heater rating formula ,April.

Degree-days for measuring heating requirements, April

Dibble, S. E., appointed to new Ahrens professorship of plumbing, heating and ventilation at Carnegie Tech., Dec.

Dissipation of heat by bare iron pipes, F. E. Giesecke, Nov.

District steam heating in small communities and residential distrcts, Walter J. Klne, May

Dominion Fuel Board issues report on central heatng, Jan.

Effective temperature with clothing, C. P. Yagloglou and W. Edw. Miller, Feb.
Electric heat for an insectary, Nov.
heating era, Seattle's, Sept.
heating in the home, Nov.

Emotional excitement and its effect on temperature rise in exhaled air, S. Homer Woodbridge, Feb.

Engineering, takes stand against free, Aug.

Engineers' license law in California, Aug.

Fans in furnace heating, value of, C. G. Buder, July

Fansler, P. E., the iso-degree-day chart, Sept.

Farmer as a potential buyer of heating and ventilating equipment, Nov.

Flues are essential from kitchen, where gas is burned, July

Flow of water in pipes, what we don't know about, A. H. Barker, May

Flushing system advocated for ventilating Holland vehicular tunnel, April

Foisy, G. A. and L. J. Bousquet, characteristics of an air-tube copper heater, May

Fuel in Kansas, how they save, John H. Kitchen, Sept., Oct.
conservation problem, small-sized anthracite the key to the hard coal, Sept.
conservation, boiler ratings and, Ray A. Small, Sept.
oil in New York office and mercantile buildings, April

Furnace heating, the value of fans in, C. G. Buder, July

Gates, H. B., house insulation and its relation to heating, Dec.

Gaylord, William W., heating buildings of large areas and high roofs, Oct.

Gas, 2000% increase in house-heating with, July
and oil, house-heating by combining the use of, Henry O. Loebell, Sept.
bills, collecting, without bothering the consumer, Dec.
burner selection, hints on, March
companies developing summer load, June
heaters, recent devlopments in unit, Aug.
heating New England house with, Sept.
heating in the Far West, Dec.
heating New England homes with, Aug.
industry on qui vive for house-heating load, C. George Segeler, Oct.
industry plans national research laboratory, June
industry provides for possible coal shortage, Sept.
progress of house-heating by in Chicago, Glenn C. Carnahan, June, July

German heating and ventilating congress, proceedings of the, Aug.

Gibson, John H., water heating and steam pipe chart, Aug.

Giesecke, F. E., a short, practical method of designing gravity water heating systems
7. design of one-pipe system, with overhead distribution and reversed return, Jan.
dissipation of heat by bare iron pipes, Nov.

Goldsbury, Paul W., air conditions during sleeping hours, Aug.

Greenhouse heating, new chart for figuring, N. T. Bourke, May

Gymnasium heating, Alfred J. Offner, April

Hallett, E. S., use of ozone in residence heating, May

Harrington, Joseph, tests on a heat exchanger for domestic water supply, April

How to heat your home, Samuel S. Wyer
4. how to burn bituminous coal, Jan.
5. how to burn coke, Feb.
6. how to burn gas, March

Heat loss and condensation, the insulation of roofs to prevent, W. L. Miller, Feb.

Heat requirements of intermittently-heated buildings, William Sommer, Oct.
supply vary with different systems, why should? T. W. Reynolds, Oct.
transmission of cast-iron radiators varies due to varying temperature differences, how, June
transmission of insulating materials, important data on, Jan.
transmission of insulating materials, important data on, Jan.
transmission, new data on radiator finishes and their effect on, William H. Severns, Feb.
electric, for an insectary, Nov.
exchanger for domestic water supply, tests on a, Joseph Harrington, April

Heated by radiation from concrete floors and walls, new London office building, Dec.

Heater development in Europe, unit, Aug.

Heating and piping contractors—this is your job, May

Heating and Piping contractors National Association
standardization work in screwed-pipe fittings, May
valve standardization, proposed new, May
recent committee appointments, Sept.
directors and secretaries meet in New York, Oct.
heating contractors adopt standards for radiator valves and screwed fittings, (report of annual convention) July
what "certified heating" means to the in-

Heating and plumbing trades in St. Louis under investigation, Nov.

Heating and ventilation—a State code and its preparation, R. A. Small, April

Heating and ventilating code, Wisconsin's revised, May, June, July, Aug.
and ventilating equipment, the farmer as a potential buyer of, Nov.
and ventilating exposition, a national, March
and ventilating requirements of a power station, Charles S. Peace, May
and ventilating the United States Capitol, S. Homer Woodbridge, March, April, Nov.

Heating and apartment building, new application of old principles in, March
and steam pipe chart, water, John H. Gibson, Aug.
buildings of large areas and high roofs, William W. Gaylord, Oct.
business for 1925—how can we improve it? R. B. Flershem, March
by gas in Chicago, progress of, Glenn C. Carnahan, June, July
contractor, cost accounting for the, Arthur J. Peel, Aug.
costs with central station steam, halving, Samuel R. Lewis, Sept.
engineers to co-operate with architects, an opportunity for, June
gas, in the Far West, Dec.
in small communities and residential districts, district steam, Walter J. Kline, May
in the home, district, Nov.
industry must act as a unit, Louis T. Braun, July
institutional gymnasium, Alfred J. Offner, April
new chart for figuring greenhouse, N. T. Bourke, May
New England homes with gas, Aug., Sept.
of rooms, British Fuel Board reports on, Aug.
possibilities in Canada, central and district, Feb.
products jumps 75% in two years, manufacturer of, June
rates for 1925-1926, central station, Dec.
requirements, degree-days for measuring, June

system, jointless, for a modern manufacturing plant, H. S. Arnold, April
heating system, a short, practical method of designing gravity water, F. E. Giesecke, Jan.
system, Winnipeg's new district, Feb.
with warm air at the University of Illinois, condensed summary of data obtained on, Dec.
work, known and unknown factors in, A. H. Barker, May, June
Hill, E. Vernon, dont's on theatre ventilation, March
Home-study course in gravity steam and water heating, A. M. Daniels
Lesson 3. heat loss computations, Jan.
Lesson 4. heat loss computations—rule-of-thumb methods, Feb.
Lesson 5. March
Lesson 6. April
Lesson 7. May
Lesson 8. up-feed, one-pipe water heating system, June
Lesson 9. application of the down-feed water heating system, July
Lesson 10. single-main circuit system, one-pipe down-feed system, expansion tanks and connections, Aug.
Lesson 11. forced or accelerated water heating systems, Sept,, Oct.
Lesson 12. designs and inspection reports, water heating systems, Nov.
Lesson 13. radiators and radiation, Dec.
Horizontal steam supply runouts to radiators, with counterflowing condensation, April
Hot water supply, design and arrangement of mains for, Herbert G. Cathcart, Sept.
House built to keep in the heat, Nov.
heating by combining the use of gas and oil, Henry O. Loebell, Sept.
heating load, gas industry on qui vive for, C. George Segeler, Oct.
How to select a pressure-reducing valve, William Sommer, March
Humidifier for the home, an elaborate air purifier and, Feb.
Humidifying requirements, house, Sept.
Humidity chart, a new, V. A. Nekrassoff, Dec.
Indirect heater performance, notes on figuring, Sept.
heating surfaces, proposed method for comparison of effectiveness, A. E. Stacey, Jr. and C. M. Ashley, July
Institute for master plumbers and heating and ventilating engineers at Carnegie Institute of Technology, Dec.
Institution of Heating and Ventilating Engineers
annual meeting of, April
summer meeting of, Aug.
meetings schedule, Nov.
autumn meeting of, Dec.
Insulation, house, and its relation to heating, H. B. Gates, Dec.
of roofs to prevent heat loss and condensation, the, W. L. Miller, Jan., Feb.
visualizing the value of, Oct.
Iso-degree-day chart, the, P. E. Fansler, Sept.
degree-day chart, how and how not to use, Nov.
Keeney, O. P., standardization of furnace-oil the pressing need of the day, Sept.
Kitchen, John H., how they save fuel in Kansas, Sept.
Kline, Walter J., district steam heating in small communities and residential districts, May
Labor survey in steamfitting trade, Feb.
Laboratory for testing small-sized anthracite (University of Pennsylvania), Feb.
Legal decisions
schedule of electric heating rates increased, Jan.
patent for thermostatic control of dampers held invalid as previously dedicated to public use, Jan.
interest in contracts by members of council awarding them, Feb.
no lien for furnishing temporary heat to building under construction under Illinois statute, Feb.
increase in electric heating rates permitted, April
change of heating system installed—acquiscence of owner—conclusiveness of architects' decision, April
heating service may or may not be a public service—right to discontinue service, June
patent for vacuum steam heating system held valid but not infringed, June
vacuum steam heating system patent, Sept.
Lewis, Samuel R., codes, rules and compendiums, Aug.
halving heating costs with central station heat, Sept.
meeting unusual requirements in a lodge building, Oct.
Loebell, Henry O., house-heating by combining the use of gas and oil, Sept.
Macintire, H. J., the cooling of theatres and public buildings, June
Mack, A. J. and J. P. Calderwood, new tests of automatic ventilators, Dec.
Mercury vapor versus steam, March
Meeting unusual requirements in a lodge building, Samuel R. Lewis, Oct.
Miller, W. Edw. and C. P. Yagloglou, effective temperature with clothing, Feb.
Miller, F. W., insulation of roofs to prevent heat loss and condensation, Jan., Feb.
Mine ventilation, researches in, Sept.
Motors, drying drowned, May
Mott, death of Abram C., Sr., June
Myers, David Moffatt, the line of advance in the coal field, Sept.
National Association of Master Plumbers, Ang.
National Association of Plumbing and Heating Salesmen, organization of, Nov.
National District Heating Association
stabilized conditions reported in district heating field (report of annual convention), June
program for annual meeting, May
National Heating and Ventilating Exposition, the forthcoming, Nov.
National Trade Extension Bureau
accounting for the contractor, Jan.
heating and plumbing sales possibilities in the United States, Jan.
"ask 'em to buy" campaign, Feb.
T. E. B. sales campaigns for 1925, Feb.
summer care of heating apparatus, July
resignation of William T. Woolley as secretary-manager, Oct.
appointment of William A. Bergner as secretary-manager, Oct.
T. E. B. conference yields practical suggestions for boosting business, Dec.
National Warm-Air Heating and Ventilating Association
warm-air furnace men dedicate their heating research residence, Jan.
warm-air furnace manufacturers get first data from heating research residence, May
appointment of publicity director, Aug.
program for mid-year meeting of, Dec.
Nekrassof, V. A., a new humidity chart, Dec.
New applications of old principles in heating an apartment building, March
New books
Tully's handbook of steam power plant engineering, March
manual for engineers, March
ventilation of school buildings, John R. McLure, March
house-heating, Margaret Fishenden, June
heating and hot water work, F. W. Dye, June
coke as a household fuel in Canada, June
fan engineering, Sept.
drafting methods, Sept.
A.S.H. & V.E. Guide, 1925-1926, Nov.
international critical tables of numerical data of physics, chemistry and technology, Dec.
patents, law and practice, Dec.
trade marks, trade names and unfair competition, Dec.
New Jersey Oil Burner dealers organize, Oct.
Jersey Oil Burner Association urges special classification for installation men, Nov.
York City Oil Burner Association, organization of, Nov.
York's municipal building equipped to burn oil, Oct.
York's "own-your-home" show, heating and ventilation to be prominently featured at, Dec.
York University's course in heating and ventilation, Oct.
Nokol dealers, proceedings of national convention of, Nov.
Offner, Alfred J., institutional gymnasium heating, April
Ohio, mechanical ventilation wins out in, May
ventilation standards, no lowering of, April
Oil, all Kansas City schools burn, June
and gas power week, March
burner dealers in Washington combine in publicity campaign, June
burner developed in Canada, a novel domestic, Aug.
burner industry, extensive program of, Nov.
burner installations, craftsmanship in, Dec.
burner interests and heating men, cooperation needed between, Aug.
burner manufacturer holds record-breaking sales convention, June
burner men hold second annual convention (American Association of Oil Burner Manufacturers), May
burners, clock thermostats and, H. W. Sweatt, Sept.
burners, combustion noise of, Alfred Ruttiman, Oct.
burners for residences, safe, March.
burners newly listed by underwriters, June
burners, present accepted practice in
1. Kleen Heet, July
2. Baker
3. Kerrihard, July
4. Silent Glow, Aug.
5. Aetna, Aug.
6. Caloroil, Sept.
7. Oil-O-Matic, Sept.
8. Chalmers, Oct.
9. Hart, Oct.
10. Sun, Oct.
11. Rayfield, Nov.
12. A. B. C., Nov.
13. Electrol, Dec.
burners, supplementary list of approved, Nov.
burning boilers—their design and characteristics, Oct., Nov.
burning equipment, new underwriters' regulations for construction and use of, June
fired cast-iron and steel boilers show high efficiencies, Dec.
New York's municipal building equipped to burn, Oct.
standardization of furnace, the pressing need of the day, O. P. Keeney, Sept.
storage tanks are being jacketed, large, Sept.
what happens when we burn, James L. Breese, Jr., June
Ozone in residence heating, the use of, E. S. Hallett, May
Panel heating with gas, European design for, Sept.
Peace, Charles S., heating and ventilating requirements of a power station, May
Peel, Arthur J., cost accounting for the heating contractor, July
Pipe conduits, tight longitudinal joints for split-tile, Sept.
joints, how to make tight, July
welding cast-iron, Dec.
Pipes, dissipation of heat from bare iron, F. E. Giesecke, Nov.
Plumbing and heating trades in St. Louis under investigation, Nov.
Pneumatic system of heating, ventilating and cooling, an old-time, Nov.
Points to remember in selecting vacuum cleaning apparatus, C. H. Whiting, Jan.
Pressure-reducing valve, how to select a, William Sommer, March
Pumps for hot water supply, Herbert G. Cathcart. Oct.
Radiation requirements of residences, calculating, March
Radiator embodies unique features, tubular aluminum, Oct.
finishes and their effect on heat transmission, new data on, William H. Severns, Feb.
how heat transmission of cast-iron, varies due to varying temperature differences, June
Rating the warm-air furnace, A. C. Willard, Feb.
Return-line system efficient, when is a, April
Reynolds, T. W., back to first principles
circulating water below its heating source without mechanical means, Jan., April
connecting returns to heating boilers without the use of check dampers, April
notes, June
why should points of heat supply vary with different systems, Oct.
Roof losses, computing, Sept.
Ruttiman, Alfred, combustion noise of domestic oil burners, Oct.
Sanitary equipment scholarship established at Carnegie Institute of Technology, May
Segeler, C. George, gas industry on qui vive for house-heating load, Oct.
Seventeen years' experience in pipe welding, H. A. Woodworth, Nov.
Severns, William H., new data on radiator finishes and their effect on heat transmission, Feb.
Seymour, James M., flushing system advocated for ventilating Holland vehicular tunnel, April
Small, R. A., a State code and its preparation, March, April
boiler ratings and fuel conservation, Sept.
data sheets for use under Wisconsin code, July
Snow from roofs, steaming, March
Society of Liquid Fuel Industry of New York disbands, Dec.
Sommer, William, how to select a pressure-reducing valve, March
heat requirements in intermittently-heated buildings, Oct.
Standardization, flexibiity in, March
of furnace oil the pressing need of the day, O. P. Keeney, Sept.
of valves, postponed, April
Standards adopted for radiator supply valves and cast-iron and malleable screwed fittings, July
Stacey, A. E., Jr. and C. M. Ashley, a proposed method for comparison of effectiveness of indirect heating surfaces, July

State of business, L. W. Alwyn-Schmidt, Jan., Feb., March, April, June
State code and its preparation, a, R. A. Small, March
Still, F. R., ———or equal, Nov.
Steam supply runouts to radiators, with counterflowing condensation, horizontal, April
wastes in heating systems, Sept.
Sweatt, H. W., clock thermostats and oil burners, Sept.
Temperature rise in exhaled air, emotional excitement and its effect on, S. Homer Woodbridge, Feb.
Tests on a heat exchanger for domestic water supply, Joseph Harrington, April
Theatre cooling pays for itself, how, Dec.
ventilation, dont's on, E. Vernon Hill, March
Thermostats, clock, and oil burners, H. W. Sweatt, Sept.
Tornadoes in southern Illinois, the weather of February and March and its relation to the, May
Trade abuses in need of correction, Aug.
and engineering associations, closer contact proposed between, Sept.
Tweed, Carleton F., air recirculating practice in the northwest, Sept.
Underwriters' regulations for construction and use of oil-burning equipment, new, July
United States Capitol, heating and ventilating the, S. Homer Woodbridge
1. the original system, March
2. the second heating system installed in the House and Senate wings, April
3. the third and latest of the systems installed in the north and south wings, Nov.
Unit heater development in Europe, Aug.
Vacuum cleaning apparatus, points to remember in selecting, C. H. Whiting
Valves for hot water supply apparatus, Herbert G. Cathcart, Sept.
Ventilating Holland vehicular tunnel, flushing system advocated for, April
Ventilation and cooling of motion picture theatres, Aug.
dont's on theatre, E. Vernon Hill, March
Iowa's schools of, May
law, what a sanitarian thinks of the Ohio, May
standards in Ohio, the proposed revision of, April
"the mistakes of Moses" applied to the science of, March
mechanical, wins out in Ohio, May
Ventilators, new tests of automatic, J. P. Calderwood and A. J. Mack, Dec.
Warm-air furnace operation, takes issue with statements on, Feb.
air furnace, rating the, A. C. Willard, Feb.
air heater rating formula, applications of the, V. S. Day, April
Water heater favored for institutional work, vertical type of, Herbert G. Cathcart, Aug.
heating and steam pipe chart, John H. Gibson, Aug.
heating systems, a short, practical method of designing, F. E. Giesecke, Jan.
supply for 400 houses, hot, Aug.
Weather charts for New York, Boston, Pittsburgh, Chicago and St. Louis, Jan., Feb., March, April, May, June, Dec.
of February and March and its relation to the tornadoes in southern Illinois, May
prophecy, long-range, Feb.
Welded smoke stacks, advantages of, Oct.
steam line, a four-mile, June
Welding cast-iron pipe, Dec.
a jointless heating system for a modern manufacturing plant, H. S. Arnold, April
seventeen years' experience in pipe, H. A. Woodworth, Nov.
When is a return-line system efficient? April
Whiting, C. H,, points to remember in selecting vacuum cleaning apparatus, Jan.
Why save, why not waste? March
Williard, A. C., rating the warm-air furnace, Feb.
Winnipeg's new district heating system, Feb.
Wisconsin code as a model for other States, Sept.
data sheets for use under, Ray A. Small, July
on heating and ventilation, appendix to, Sept.
Industrial Commission would rate heating boilers, how the, Sept.
Wisconsin's revised heating and ventilation code, May, June, July, Aug.
Woodbridge, S. Homer, emotional excitement and its effect on temperature rise in exhaled air, Feb.
heating and ventilating the U. S. Capitol, March, April, Nov.
Woodworth, H. A., seventeen years' experience in pipe welding, Nov.
Woolley, William J., testimonial dinner to, Nov.
Wyer, Samuel S., how to heat your home
4. how to burn bituminous coal, Jan.
5. how to burn coke, Feb.
6. how to burn gas, March
Yagloglou, C. P., and W. Edw. Miller, effective temperature with clothing, Feb.
Z.H.G. heating system, Oct.

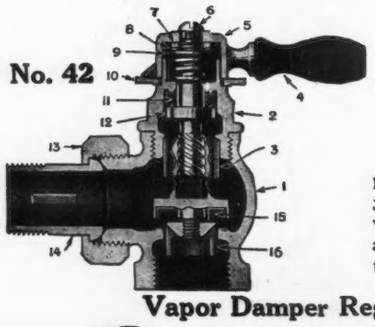
STEAM TRAPS
AIR TRAPS
STEAM SEPARATORS
EXHAUST HEADS
OIL SEPARATORS
BOILER ALARM WATER COLUMNS
STRAINERS

WRIGHT AUSTIN

WRIGHT-AUSTIN CO.
DETROIT, MICHIGAN

McALEAR SPECIALTIES FOR VAPOR HEATING SYSTEM

No. 42

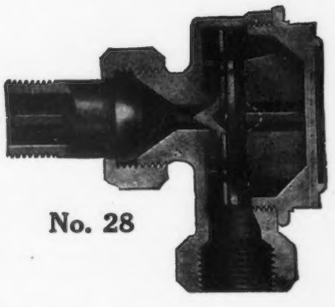


Packless Radiator Valves

Quick-opening, nickel-plated brass body. Fig. 38, angle pattern, wood wheel handle; Fig. 42, angle pattern, graduating type, lever handle.

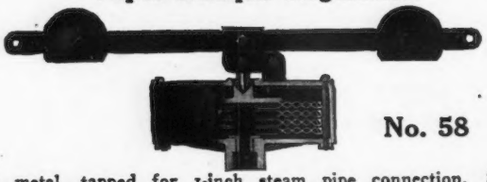
Radiator Traps

Discharge air and water in large quantities. Close tight against steam. Noiseless in operation. Nos. 28 and 28-A of steam metal, furnished N. P. unless otherwise specified. Nos. 28-A and 29-A have right and left-hand discharge openings. Nos. 29, 29-A, 33, 34 and 36 have iron bodies and brass caps, furnished plain unless otherwise specified.



No. 28

Vapor Damper Regulators



No. 58

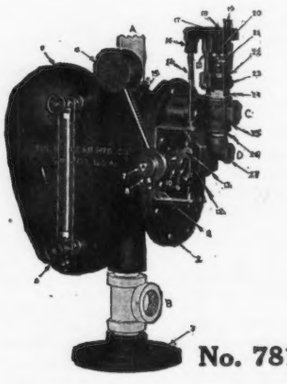
All metal, tapped for 1-inch steam pipe connection. Shipped complete with lever and two weights, S hooks, 2 ceiling pulleys and 12 feet of No. 10 plumbers' chain.

No. 56 for 0 to 3 pounds pressure, constructed with bellows of 10-inch flexible walls. No. 58 for 1 to 15 pounds pressure, constructed with bellows of 6-inch flexible walls.

Combination Float and Thermostatic Ball Check Valves

For venting supply and return mains of heating systems. These air valves close tight against water and steam, and by use of the check prevent the atmospheric pressure from entering the discharge opening.

No. 15



No. 781

Air Eliminator and Return Traps

For automatically returning the water of condensation direct to boiler and discharging air. Minimum distance between water line of boiler and bottom of trap should be 18 inches. "A"—inlet to trap; "B"—discharge to boiler; "C"—steam connection to boiler; "D"—air vent.

THE McALEAR MFG. CO.
1901-7 S. Western Ave.
CHICAGO, ILL.